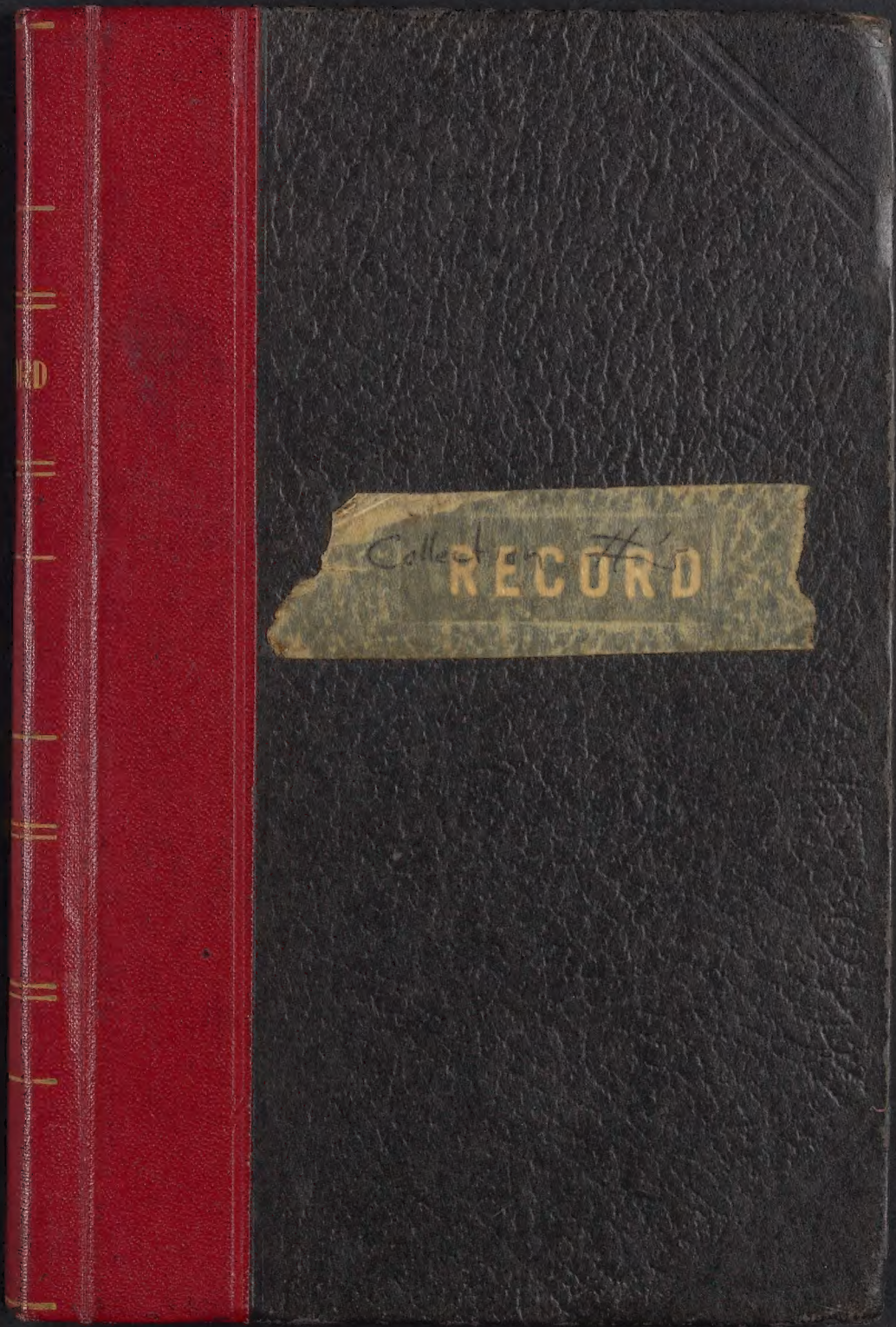
RECORD

249

VERNON McMILLAN Inc.
THE ROYAL LINE

ACCOUNT BOOKS

144 PAGES • 7⅞ IN. x 5¼ IN. (20 cm x 13.4 cm)

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VERNON McMILLAN, Inc., ELIZABETH, N.J. 07208

Ecuador 1980 ~~May~~ June 1
Imbabura Province.
Sunday,
1300 meters, dense montane - lower cloud
forest vegetation, near Rio verde
with Robert Bleiweiss

5017
Lichen, green, foliose, Loboria Like.
on log along trail in forest
① 1/1 1 → break into 3 det Lugo '84

5018 (3) (Peltapteris) Elaphoglossum peltatum (Sw.) Urban
det Lugo '84
① 1/1 fern creeping by rhizome on log by trail
in dense mass (Peltapteris)
5018A ? Elaphoglossum Rabellatum (Willd.) Mickel
5019 Peltapteris det Lugo '84
① 1 1→2 or 3 / growing with 5018 - intermingled
but no intermediates - lamina lanceolate crenate
petiole present - looks to be a different species!
of peltapteris.

5020 Equisetum Bogotense HBK.
2/1/1 on sandy soil at edge of stream
fertile like sterile, branched at base.
det Lugo '84

5021 Hymenophyllum hirsutum (L.) Sw. det Lyon '64
D/1/1 Hymenophyllaceae, climbing on trunk of med tree at edge of trail in forest.

June 2

Monday - area around hut of René _____ in montane forest 1300 m. in vicinity of Rio verde and Rios _____ y _____.

5022 Dennstaedtia arborascens (Willd.) Maxon (3m)
1/1/1 Fern, climbing a med tree to 10 feet 3 (stipe adaxial)?
☺ 1 vasc. bundle at base of petiole.

5023 Lycopodium cernuum L. Det. B Ollgaard 1981
2/1/1 clavatum group. epiphyte on horizontal tree trunk fallen over rivu - clambering and hanging over log - fertile branches more or less erect.
3 → (5)

det Tryon '84

5024 Grammitis subtilis (Kl.) Mort.
'84 ①/1 epiphyte on trees in cloud forest, on moss on trunk
~~2~~ 1 → (3)

5025 Thelypteris fluminalis A.R. Sm. det A.R. Smith
① 1/1 fern, ~~prostrate~~ growing along stream over rocks at edge of water, on very thin always wet soil.
2 → (4) (sent to A.R. Smith for det.)

5026
Calyx sticky, fls. 2 zygo, pink-lavender.
① 1 1 plant 3 ft. shrub. growing on rocks in bed of stream always wet conditions
fls. opened.
3 → (4)

5027 Selaginella ~~tricos~~ anisotis Sod. det Tryon '84
1 1 1 pendent on rocks along stream
large
2 → (3)

5028 Selaginella
① 1 1 pendant on rocks along stream.
2 → (4-5)

5029 Trichomanes capillaceum L. det Tryon '84
(2) 11 Hymenophyllaceae. dense mats on tree trunk in mature forest. very fine.
2-(4)

5030 ~~Hymenophyllum~~ Grammitis Mathewsii (Mett.) Mart. det Tryon 1984
1 1 1 epiphyte climb by rhizom on mossy tree in dense mature forest.
3

5030A Trichomanes radicans Sw. det Tryon '84

5031 Grammitis leucosticta (J. Sm.) Mett.
3 11 epiphyte (6ft) on tree trunk in dense mature forest
3→(4) det Tryon '84

5031a Heliconia

2) 5032A ~~Grammitis~~ Nephrolepis occidentalis K2e.
1 epiphyte on tree trunk at 6ft. Very long
113 cm det Tryon '83
(1)

5032 — Cayopteris eurom amphostemom (K2e.)
det Tryon 84

5033 Adiantum Kalbreyeri C. Chr.
1 1 mist bed area ~~alley~~ along rock stream in dense mature forest
3. det Tryon '83

5034

climbing epiphyte on small tree in montane forest. rhizome large ($2\frac{1}{2} \times 1\frac{1}{2}$) c/o ovate oval shaped leaves, arching at pendant!
rhizome 4-5 cm with scales. rhizome flattened oval shaped.
leaves to 124 cm long
(90 - 104 - 124 cm)

5035 Danaea Moritziana Presl.

Fern, det Tryon '83

(3) leaves to 120 cm terrestrial fleshy base

5036

large pictures

~~Ericaceae~~ Ericaceae

4 → 3 epiphytic ~~shrub~~ vine-like shrub in larger tree. overhanging stream. Flowers in early bloom.

Hummingbird visitors observed ~~visited~~ are.

5037

2 11 (4) ericaceae more fragile, dominican
pictures 150 ft of clear - the plant in late
bloom (later than 5038

a pendant shrub like vine on side of
tree ~~day~~ overhanging river
Hummingbird visitors observed—

5038

pictures small tree - to 15 feet at edge of
clearing flower fleshy purple to
~~orang~~ orange fruits small
1 11 calyx adhering w/ purple tips.
(3)

5039 Lepanthes

× small epiphyte on horizontal rubber branch

(1.) olive water. strong

Det L. Garay

June 3, 1980 1300 meters

by Carp, same as above.

5040 Selaginella juricalota (Pearl.) Spring det Tryon '74

(3) terrestrial - at base of tree trunk climbing up trunk. Dense moisture forest. (all pieces in each sheet belong to each leaf

5041 Sobralina Fenzliana

× orchid

epiphyte on horizontal rubber tree

odor of chocolate — verified by Rob Bleiweiss

Det L. Garay

montane-cloud forest

June 4, 1980, at same camp.
1460 meters upper montane forest.

5042 Vittaria remota Fee det Tryon '84
① " Vittaria - epiphytic on trunk of tree
≙ pendent
3 → 4

5043
" " pl white - calyx purple.
large leaf - mod tree to 4 meters
3

holophlebium Baker

5044 Asplenium ~~reticule~~ det Tryon '84
② " fern, (Asplenium?) creeping clay many leaves ~~root~~ fallen from tree.
2 → (4)

1400 m

5045 Asplenium retaceum (Willd.) Mett.
② " fern - sending out long leaves which root at tips and form new plants.
epiphytic on tree trunk det Tryon '84
3 → (4)

5046 Selaginella anisotis Sod. det Tryon
① " epiphytic climber on tree trunk from ground - also epiphytic at low parts of tree trunk.

Elaphoglossum sp nov. aff. E. cuatrec

5047 ~~Pellaptaris~~ det Lyon '84

D 11 Creeping by long rhizome in mossy humid forest from canopy of host

1350 m

5048

small yellow fls. small tree to 12 feet in host

3 Visited by ~~Wuchereria bancrofti~~

5049

small tree w/ blue laceate fls

fleshy fls. 15 feet tall

5050 Selaginella Lycopodium dichaeoides Maxon

1 1→(3)(2) Det. B. Øllgaard '81

pendent epiphyte at 15 feet in small tree. leaves standing at first stem on 4 distinct ranks.

Leaves parallel to stem

1300 meters

let type '84

5051 Cyathea Fulva (Mart. & Gal.) Fée
large leaf to shrub - unbranched
terrestrial, ~~to rock~~ clambering up
tree trunks,
observed ~~pollen~~ visitor
Coeligena wilsoni (Brown Inca).
~~top~~ up to 4 meters,
lower leaves early fully leaving
only upmost leaves.
flower ~~red~~ yellow, calyx red.
(3) ~~Phaethornis syrmatophorus~~

5052
Gesneriaceae, ~~large leaf to 2½ meters~~
large leaf - shrub - partly epiphytic
and pendant on tree.
flowers bright red.
(2)

1400 meters

5053

Ericaceae, (Vaccinieae, small white flowers.
epiphytic on tree in eroded of
border
with violet tailed Sylph
perch & hover feeding observed.
3

Aglaeocercus coelestis

5054

ericaceae (+ Pickbd)
3→(4) Green Fronted Lancebill
observed visiting
Daryfera ludovicia
along Rio verde
small tree to 2½ meters.

5055

2 1 Gesher

(3) (same as 5054)

3 meters clambering the yellow of dark spots

observed visitor white tailed Hillstar

Urochroa Bougeri

Bougueri

5056

1 1 Gesher.

streamside, 4 meter on dense

foliage - & on edge of dense foliage

white tailed hillstar observed

(2) flower yellow, calyx red.

5057

3 1 1 small tree, 10 ~~10~~ meter

~~streamside~~, white tailed hillstar,

5 → (6) the all yellow

5058

1 1 1 small tree to 8 meter

stream side,

(green fronted Lancebill)

June 6 Friday.
vicinity of camp.

going up a ridge running west from camp that forms a divide between rio verde and Rio Lita drainage. Spectacular forest. collected from 1800 - 1770 meters.
as we walked up the ridge there were few palms & one tree fern (Cooper test) the forest became a little ~~more open~~ more open in that there were not as many tall trees and more smaller trees Epiphyte were one previous and species which were infrequent at 1800 were abundant at 1600/1700 m.

(walked from 1800-1770)

1500 meter upper montane - Lower cloud forest vegetation

5059 Diplazium costale (Sw.) Presl.
1 11 terrestrial fern, rhizome partly horizontal the crest & growing point barely exposed in duff. fronds to 1.6 meters.
3 (det Tryon '85)

5060
1 11 small shrub to 3 meters
3

1600 meters

5061

2/1 Large clonley shrub like "tiger tongue". Green or dk with upper surface w/ mod leaves. lobe w/ 2 dark violet spots each.

(3) phaethornis syrmatophorus

5062

1 1 1 2 climbing w Epiphytes semi vine-shrub yellow w/ red brown flower looking of calyx long red calyx underside of leaf purple w/ hair

(3) similar species lower down

1680 meters

5063 Hyperophylla interruptum Rze Hymenophyllaceae shot tiger 'ey epiphyte on tree trunk, creeping by leg rhizomes

(2)

5064 Hymenophyllum Sodiroi Ch.r. vel aff.
" (4) → (6) det Lyon '49

5065
clinbing vine, fruit fleshy - blue
with thin white latex.
Apoc.?, fls. purple & green

~~5066 Melastom, tree to 15 meter~~
~~fls white~~

5066 Salpichlaena volubilis (Kaulf.) Hook.
fern, climbing on tree trunks and branches
3 det. Lyon '49

1700 - 1740 meters

5067 Selaginella anisotis Spr. det Lyon '49
terrestrial, creeping on humus and base of
trees
5-(6)

5068 Salpichlaena volub. l.s (Kaulf) Hook.
1 1 fern. climbing on tree trunks
3
det tryon '84

5069 Vaccinium
2 1 1 epiphyte in trunks of trees.
flr. deep ~~maroon~~ maroon red.
3

5070
1 1 1 ~~vine~~ Caye shrub to 3 meters
flowers yellow — (a similar species w/
~~smaller~~ large flowers occurs here down (1300)
3

5071
2 1 tree, melastom - 15 meters
flr very red ~~or~~ orange, anthers in flr ~~head~~
soon?
3

5072
3 climbing epiphyte, yellow (bracts?)
2 1 red flr. fall only.
2 similar species in area.
Greenwood

5073

1 (1) ericaceae
epiphyte on trees. flower pendent
purple - seeds in a sticky gel.
bracts red.

1740 - 1770 meters

Scaphosepalum
Mesospalum

5074 Scap

x orchid epiphytic on branches of trees
1 specimen seen w/ yellow flowers not the
usually purple veined.
3 det L. Gamay

5075 Hymenophyllum dependens Martens et Galeotti
Hymenophyll, hanging epiphyte on forest
tree trunks, seen to 1 meter
6

5076

x monocot, 1½ upright, calyx orange at base
green towards tip. corolla white
terrestrial or epiphyte on mossy tree trunks.
2

5077

climbing epiphyte on forest tree trunk
fls. yellow, red tipped, calyx red.
Gesn. 3 Psym y Brown Inca

5078 Erythrodes
x terrestrial orchid, like Goodyera
fls. white
2 Det. L. Garay

5079

creeping vine on tree. calyx orange
corolla orange yellow
1 Iff hanging and scarcely upright.

5080

bamboo. creeping over bracken
abundant.

June 7.

right by Camp. 1300 m

epiphytes in canopy of tree. 25 m

5081 Lycopodium funiforme Spring.
funiforme
pendent epiphyte Det. B. Øllgaard 1981

5082 Oleander plosa Hook
climbing in tree
det Lyon '83

5083 Hymenophyllum intersuptum Kze det Lyon '84
log epiphyte in rainy thicket
5083A Trichomanes subjuga Athomanes

5084 Hymenophyllum myriocarpum Hook.
epiphyte in rainy thicket det Lyon '84

5085 Grammitis trichomanioides (Sw.) Ching
epiphyte in rainy thicket det Lyon '84

5086

1 moss Rhytidiaceae epiphyte
2 → (6)

5087.

? Lichen 1 → (3)

1260 meters

5088 Heliconia

1(3) 0 0 fls yellow, bracts red

2. observed visited by
white tipped sicklebill
fl spike 140 cm long

1560 meters

5089

1 2 Bromeliad epiphyte to 120 cm from base
leaves 1 m across > 1 m long
the white tubular, epiphyte 8 m up
Brown Inca in tree

1560 m

5090

1 Bromeliad epiphyte

5091

1 Bromeliad " "

6/12/80

July 13

Inbaburra Pass.

with Robert Bleiweiss

2600 meters

Hacienda El Hospital. ~~on the~~ N. of Cotacachi owned by

Ca 13 Km N of Cotacachi

Salix. Just above Casa along trail

2 1 mile.

Steep W. facing slope, grassy slope Andropogon stipa, Aristida etc.

5092

3 11 evicious, fruit purple black - seeds in gell

bracts red, fls. red. w white tips

dry grassy hillside. shrub to 1 meter.

4

5093

2 11 evicious, fruit black, seeds in gell

fls. pink-white, shrub to 50 cm

2-(3)

5094 Cheilanthes bonariensis (Willd) Proctor

1 1 1 Cheilanthes - in crack of rock det Lyon '83

3

5095 Elaphoglossum stenophyllum (Sod.)

2) 11 " Diels

3-15) det Lyon '84

5096 Elaphoglossum Jamesonii (Hook & Grev.) Moore
fertile leaves folded and crest, det. Tryon 1947
other leaves rosette like. from crack of
vertical rock
2-(4)

5097
shrub 4 2 ft. fls. white
3-(5)

5098 Alstroemeria Pinbriata HBK
x orchid terrestrial fls. green
3

Det. L Garay

5099 Asplenium praemorsum Sw. det Tryon '47
0 on rock of vertical rock
1-(3)

5900
Lichen, gelatinous, on bark of shrubs (closely)

5901 Passiflora
fls orange red.
All humming birds in area had yellow-orange pollen
on back of head - most likely from-their plant.
Met Colibri ? CORUSCANS

5902
Arrayllis fls. orange, anthers yellow
(1) Metallura TYRIANTHINA

5103

D 11 fl. yellow, w/ very weak spurs.
4- sepals, not open when collected

July 16

Volcán Cotacachi Cn. of. (3200 meters)
NW slope of Alturas De Cayachupa
grazed, burned paramo
bunch grasses

5104

Liliaceae; grey evergreen ericoid shrub of edge of paramo; sepals orange petals yellow w dark green, stamens 6
2-4

5105 Pteridophyte

① 11 + Orchid, Lit. spiranthes
Lorda basal leaves, rosette, fleshy ± tuberous
sepals green; petals brown-green
upper pet. light w/ dark sheppe
edges of petals sinuous
1->(4)

5106 Vaccinium

1 11 shrub to 3 feet, round to fine, growing back vigorously from base the pink in bud, white at maturity fruit blue - delicious when ripe. abundant.
3→(4)

5107 Gomphrena

2 11 orchid - Like Goodyera.
amongst grass, sprawling like fragrance.
2 1 - 2 (3)
Det L. Garay

5108 Barbula

2 11 very low purplish, fls - pencil yellow
4→(5)

5109 Lycopodium. Capellae (Herter) Morton
in clumps Det B Øllgard
5 - (9)

5110 Lycopodium thyoides H.&B. ex Willd.
creeping Det. B. Øllgard '81
3 - 5 Complanatum det Tryon '42

5111 Lycopodium clavatum ssp. contiguum (Kl.)
creeping ined.
4 - 8

5112 Jamesonia
6-(12) amongst grass

5113
Loranthaceae
fruit orange yellow
flow orange-yellow - not opening
1-2(3)

5114 Sphagnum
low wet area of paramo

5115 Sphagnum
"

5116 Cladina
"

5117
~~con~~ Lichen, (parmelia)
epiphytes on shrubs at edge of paramo

5118 Oropogon

5119 Oropogon
"

5120 Oropogon
"

5121
"
non, epiphytic on the edge of dead dry
pann

6/17/80
by camp, Loreto 3200m

5122
xLichen epiphytic on mossy trunk, & branches

5123
x "

5124
"

5125
"

5126

"

1

5127 Epidendrum

orchid a clump, epiphyte on horizontal trunk at 3 feet off ground.

bracken to 1.3 meters, the green yellow

4 fragrant ~~under~~ similar to Cymbidium colcedon

5128 Hymenophyllum Ferax V.d. Bosch.

fern, epiphyte on tree trunk

pendant

4

5129

melastome, small sparingly branched shrub.

4.

5130

fern

pendant on tree trunk

5131

flea flicks the whole 15 feet

4 → 5

Ergocnemis Luciani

5132 Polypodium
fern, epiphytic on tree trunk

6/18/80

Coast to NE of camp, much wetter than on by camp - more epiphytic ferns on. At 3360 meters ~~we~~ we left burned paramo and entered forest at 3200 we crossed a ridge that became an elfin forest - very nice ~~the~~ finally became forest again - descended to 3150 m.

5133

bushy ~~tree~~ ascr to edge of paramo
bushy shrub to 1 meter

5131 Lycopodium rosenstockianum Herter
~~amongst moss on plants at edge of paramo~~
pendant from mossy bank
Det B. Øllgaard '81

5135 Lycopodium subulatum Desv. ex Poiret
pendant from mossy ~~rock~~ bank
Ce
Det. B. Øllgaard '81

5136 Lycopodium thyoides H. & B. ex Willd.
2 Det B. Hillgard '81
~~[illegible] from rocky bank~~
among moss & grass & shrubs at edge of pasture
(L. Cupressina typ. ft 3)

5137 Lycopodium rosenstockianum Herter
1 epiphyte on trees ft 8 notes up Det B Hillgard
pendent to 1½ notes

5138 Epidendrum
1 orchid, no fragrance epiphyte in tree
ft 2 notes, branches to 1½ notes
Det L. Garay

5139 Fernandezia
1 orchid, red creeping & branching on
tree trunk in elfin forest
S. Det. L. Garay

5140 . . .
1 orchid, small yellow-green, creeping & branching
on tree trunk in elfin forest.

5141
1 ~~on~~ vine, ~~fl~~ red, ~~branching~~ & climbing
~~on~~ over shrubs,
E. luciani

R.B. 3/21
map

5142a) Thelypteris aff. corazonensis Sod. but probably a new species
5142) next to AR. Smith's det. Thelypteris cf. corazonensis Sod. but slightly different – few collections
det A.K. Smith.

211 Dryop, Terrestrial on bank.
(Voss. Guide 2)
3

det Tryon '84

5143 Hymenophyllum Sodiroi C. Chr. Vel. aff.
Hymenophyll, trailing on 3 dimensions →
4, leathery bushy like.
epiphytic on tree trunk.

5144 Hymenophyllum Subg. Leptocionium
211 Hymenophyll., epiphytic

det Tryon '84

5145 Elaphoglossum Sodiroi (Baker) Christ?
111 epiphytic at very base of tree trunks
3

5146 Elaphoglossum ?
111 epiphytic on base of trees.

5147 Coccineorchis cornua (Lindl.) Garay
211 Orchid Terrestrial on bank.
Yl. orange
Det L. Garay

5148

shut fr the, shrub to 3 meters along stream in canyon

5149 Thelypteris scabrii (Christ) Alston
fern terrestrial
det Lyon '84

5150 Thelypteris decussata (L.) Proctor det. Lyon '84
fern terrestrial, leaves to 4 meters arching and supported on vegetation

6/25/80, by camp (Lovell)

5151

Tree fern, 4 meters high, leaves to 1.6 meters, 2 mod forms at base of stem

5152 Pernettya prostrata (Cav.) DC Det J. Luteyn
erect shrub in burned pasture
fr. white, fruit Rock ≈ Tarleton
R.B. 1985 3/21 sucks dry? to 1.5 meters tall

5153

Lycopodium fr the, burned pasture
≈ shrub to .8 meters

5154 Castilleja
bracts red. paras

5155
yellow shrub, Rosaceae?
brown paras, shrub to 1.5 meters

5156
composites, paras. shrub to 1.5 meters
flw yellow.

6/21/80
Locust - NW of Camp, with Locust
3200 meters.

5157
climbing vines 2-6 meters
apoc.? vines by BLK winged stem fruit
2-(3) LOCKLENA LUTIFLAE
5158 2 Solanaceae
climbing vines 2-6 meters.
apoc.?
3-(4) Solanaceae

5159 PTEROPHANES CYANOPTERUS

Loranth. reb Fl. LATRODECTUS [illegible]

5160 Calceolaria

Metallura tyrianthina

~~5161~~

5161 Fuschia

Per red, large leaf to 2 meters

5162 Macleania rupestris (HBK) A.C. Sm. Fl.

ovicad, red, clusters to 7 meters

P.B. Cecligena luteola

Det Jama Lutea

5163

2 ft nd spec. close to Coe Lebeb

5164 Blechnum Buchtienii Rosenst. Lebeb

~~toxicum~~ ! det Tryon '53

5165 ~~Polypodium~~ Grammitis semihirsuta (Kl.)

Mort. det Tryon '54

5166 ~~Polypodium~~ Eriosorus flexuosus (HBK)

Copel

det Tryon '53

5167

Melastome root colored beneath

~~Pamphiacum~~ shrub.

Metl. Tyr

~~5168~~

~~Costustoma~~, Pls yellow, Fruit Pitchy

in ~~bottle~~.

? ulva

S168

R. B.

melaston., flat topped clusters
brnta pech umbels
3 Ramphomicron microrhy
microrhynchum

S169

copunctus, shale
Ramphomicron "

S170

copunctus, ante bracts purple
Ramphomicron "

S171

Lichen

6/23/80 - while travelling out of Piñán to El Hospital.

Laguna de piñán - 3150 meters
(Las Pensas)
ca 30 Km NW of Cikachi

5172 Hymenophyllum polyanthos Sw. det Tryon '84
Filmyfern, epiphytic on rocks.
along brushy Cohastrae

5173 Polypodium mororum Hook.
" "
Pilypodium det Tryon '84

5174 Lycopodium phylicifolium Desv.
" ex Poiret
Det R. Ollgard '81
L. subulatum det Tryon '83
3400 meters, mossed & burnt pasture

5175 Vicia

Between paramo of Tama Cerro de Piñas
and Cabeceda
3800 meters
grass + burnt paramo

5176 Senecio
1 1 1

3800 meters. - grass + burnt paramo

5177 Lupinus
shrub ± 1 meter

5178 ~~Chogiraga~~ Chuquiraga
shrub ± 1.7 meters.
flr. orange
Agleactis cupripennis

5179. Gentiana.
flr purple.

3300 meters

5180

large shrub – herb to 3 meters
fr green – yellow
rachis lobed, large stipel and a bulbil

5181

rachis terminal abruptly shrubs. n exposed
bank of trail fr. yellow.

~~3 2~~

5182 Polystichum Sodiroi Christ
fron, terminal in dry soil of trail bank
det Tryon '88

5183. Thelypteris Rosenstockii (C. Ch.) Tryon
" det Tryon 1984

3200 meters

Paramo

5184 Lobelia.

2400 meters

S185 Lepidinia

weedy shallows to 1.5 meters - long
strands - flowers white - calyx lobes purple

8/11/80

with B. Allgood and Susan Roth.

Radio station read by Papadopoulos

~~4200~~ 4200 meters small ~~scale~~ 2 agua
channels lake

S186 Isoetes

submerged and emergent in small scale quillworts

4100 meters small lagoon

S187 Isoetes

submerged in small lake.

4050 meters

S188 Isoetes

submerged in large shallow lagoon

All Isoetes gen. to Jim Hickey [illegible] to
4000 m. cultures
5184 Isoetes tripodrus
in mud with clay wall running stream.

Aug. 21 Por. Carchi

3350 m. on road to El Carmelo
15 Km before town. edge of
Espeletia paramo

5190 Ollucus
cult. in Field.

5191 Sphagnum
low alt log

5192 Sphagnum
low alt log.

7. Km before El Carmelo
3200 m. Steep road cut

5193 Lycopodium cf. rosenstockianum Herter
terrestrial, pendent on steep road cut
Det B. Øllgaard
(det L. meriae det Tyn '83) '84

5194 Lycopodium tenue H. & B. ex Willd.
Terrestrial, pendent on steep road cut,
Det B. Øllgaard '81
(Huntinalodes Spring det Tyn '83)

Sept

1980 Sept. 8 Minnesota.

Ottertail County
Ottertail Prairie, Prairie.
small ridge

5195 Gentiana

5196 Spiranthes

=
Prairie on Ottertail – Grant Co. Line
just to E of Powerline (Ott. Co.)

5197 Spiranthes

Douglas Co.
7-sisters prairie

5198 Aster oblongifolius
dry prairie hillside

Douglas Co.
Kelley Hills or Elmoss Hills
East of J. Christina.
Dry rocky pastured prairie.

5199 Orobanche ludoviciana
sandy bank

5200 Helianthemum
growing only with 5201 !!

5201 Lechea

5202 Aster oblongifolios

5203 Aster azureus

1981 August 17

Douglas Co. Minnesota

T128N R39W N½ Sec 31

5204 Linum usitatissimum L.

Label ✓ cultivated in field

Typed at Econ

August 18

T127N, R38W S½ SW¼ Sec 16.

5205 Cannabis sativa L.

Econ ✓6 disturbed soil in pasture along drainage ditch

T127N R39W SW¼ SE¼ Sec. 23

5206 Fagopyrum esculentum Moench.

Econ ✓4 cultivated in field. Buckwheat

5207 Medicago sativa L.

Econ ✓ ~~planted~~ cult. for forage

Alfalfa

SE¼ Sec 20 (our Farm)

5208 Tetragonia expansa Murr.

Econ ✓ cultivated in garden, seed from Burpees

New Zealand spinach

5209 Borago officinalis L.
Econ ✓2 "

5210 Citrullus vulgaris Schrad
Econ ✓1 water melon

5211 Cucumis melo L.
Econ ✓1 Honeydew"

5212 Mentha spicata L. "spearmint"
Econ ✓1 "

5213 Glycine max Merr.
Econ ✓2 cultivated in Field

August 19, 1981 Douglas Co. Wash.
2-Sisters Preserve (TNC)

5214 Cascota
growing on herbs & brush in wet thicket near spring.

5215 Sagittaria
wet thicket near spring

5216 Verbena

edge of woods along [illegible] old road grade

5217

grass wet woods near spring

5218 Epil[illegible]

"

5219 Epil[illegible]

"

5220 Pilea

5221 Mimulus glabratus HBK

a H2O & near spring

5222 Amphicarpa

over brush & herbs in low wet woods

5223 Gerardia aspera

dry prairie above gravel pit

SE¼ SE¼ Sec 8 T128N R34W

5224 Trifolium pratense L. Red Clover
Econ ✓ Cultivated in field for hay and for seed

August 20, 1981 Douglas Co
by Elburn Rolfs
NW¼ SE¼ Sec 1 T127N R. 38W

5225 Humulus
on roadside (dry)

SE¼ Sec 20 T 127N R 34W
on farm

5226 Polygonum convolvulus
creeping weed in garden

Aug 21 Grant Co Minn.
SE corner of Lake just E of Herman on Hwy 27
between Road & Lake

5227 Desmanthus
sandy soil between road & Lake

August 25 Douglas Co.
SE¼ Sec 9 T13ON, R36W
Spruce Center Wildlife Management Area
Low wet woods. Abies, Larix, Picea, Alnus

5228 Polygonum

5229 Cleome

5230 Impatiens
yellow flowers no spots - only plant seen
w/ yell. flo. many with orange

5231 Bidens

5232 Carex
4 change form

5232a Aster

5233
grass

5234 Vaccinium

5235 Malaxis

5236 Habenaria

5237 Lemna
floating in pud of H2O

D. Pfister
Det.
5238 Endosone paradoxa Link ex Fries
Fungi - growing at top of capitulum
at Farlow Sphagnum girghensohni
Long yellow. only 2 seen

5239 Parnassia
wet meadow at edge of woods.

5240 Carpinus
edge of swamp woods
Long shrub 15 feet

T13N R3E
NE¼ NE¼ Sec 6

wet sedge Meadow

5241 Solidago

5242 Epilobium

5243 Aster

5244 Scutellaria

5245 Spirae.
small bush (4 feet)

5246 Heracium
open oak woods alley road
sandy soil

T13 N R 5 W
N½ NE¼ Sec 2, South side of road
at bend

5247 Sagittaria
edge of boggy soil sandy soil

5248 Polygonum scandens
climbing bush

N side of road.

5249 Cornus rugosa
Shrub 4 to 5 feet, moist woods fruit white—
light blue

5250 Pilea

5251 Urtica

NE 1/4 NE 1/4 Sec 34 T 12S R 3E

5252 Sorghum vulgare Pers.
Econ with Zea for use as silage

Cambridge Mass
Sept. 25. 1981

Harvard Herbaria Experimental
Garden

5253 Brassingaltia bascilloides
to cult from tuber obtained from Park Seed
Co.
Climbing vine, racemes pendant.
deciduous twiggy, low stem stiberous
producing large tuber underground
tuber shiny with a bitter taste.

Stones reflected in bed, would by many
would insects opposite for the mel and of
nectar, flowers fragrant.
succulent

5254 Basella alba

tiny vine, fruits black-purple
succulent seeds from Burpee seed Co
sold as B. Alba Malabar Spinach

5255 Basella alba

same as above but <u>red</u> stems & leaves

Ullucus by Henry Hinz

Prov. Ancash
Huaraz - multicolors

Town of Puno = 3. large ones

Collection #5